

In the Claims

Please replace all prior versions, and listings, of claims in the application with the following list of claims:

1-25. (Canceled)

26. (Previously Presented) A method for stimulating hematopoietic cells in vitro comprising: culturing the hematopoietic cells in the absence of exogenous cytokines and exogenous stromal cells and in the presence of an amount of a dipeptidylpeptidase type IV (DP IV) inhibitor sufficient to stimulate the hematopoietic cells.

27. (Previously Presented) The method of claim 26, wherein the hematopoietic cells are hematopoietic stem cells, early progenitor cells, or hematopoietic precursor cells.

28. (Previously Presented) The method of claim 26, wherein the hematopoietic cells are umbilical cord blood cells or bone marrow cells.

29. (Previously Presented) The method of claim 26, wherein the DP IV inhibitor is a Lys-boroPro monomer, a Pro-boroPro monomer, a Val-boroPro monomer or a Lys-boroPro conjugate.

30. (Previously Presented) The method of claim 26, wherein the DP IV inhibitor is an immobilized DP IV inhibitor.

31. (Previously Presented) The method of claim 30, wherein the immobilized DP IV inhibitor comprises the DP IV inhibitor attached to an immobilization structure that is a tissue culture vessel.

32. (Previously Presented) The method of claim 30, wherein the immobilized DP IV inhibitor comprises the DP IV inhibitor attached to an immobilization structure that is a particle.

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33. – 35. (Canceled)